



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,028	05/02/2006	Wolfgang Gottmann	S3-03P07671	4067

24131	7590	06/27/2007
LERNER GREENBERG STEMER LLP		
P O BOX 2480		
HOLLYWOOD, FL 33022-2480		

EXAMINER	
NGUYEN, TRAN N	

ART UNIT	PAPER NUMBER
2834	

MAIL DATE	DELIVERY MODE
06/27/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/564,028

Applicant(s)

GOTTMANN ET AL.

Examiner

Tran N. Nguyen

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 11-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 5/22/07 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Priority*

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Drawings*

The drawings were received on 5/22/07. These drawings are **approved**.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 11-23** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Kaeufl et al (US Pub 2003/0001448)** in view of **Parker (US 5,896,079)** and **Haag et al (US 6,232,684)**.

**Kaeufl** discloses an electric drive unit are used in diverse application fields in a motor vehicle field, various movable parts of the motor vehicle such as seats, window lifters, sliding sunroofs, etc., are operated by means of electric drive units. Electric drive units consist of a DC motor for generating and providing electrical drive power, and of an electronic module for controlling/driving such as speed and power regulation of the motor (para [0001]). **Kaeufl** discloses the control circuit module (20) (figs 1-2, para [0005]) including a PCB (21) and mounted thereon are: a supply line with power components (22), circuit component (24) for controlling the speed, and an attenuation element (23), i.e., an anti-interference component (23), that is configured to attenuate electromagnetic interference signals generated in the motor by

electromagnetic interference suppressing effects of the switching processes, i.e., commutation sparking or brush arcing, wherein the PCB (21) is obviously configured for later insertion of the control circuit elements (22, 23, 24) being mounted on the PCB (21) as SMD components by means of surface mounting (Figs 1-2, para [0015]). **Kaeufli** substantially discloses the claimed invention, except for the limitations of the following:

- (a) the attenuation element is a common mode ferrite component;
- (b) a common housing enclosing the motor and the PCB with the attenuation element.

*Regarding the limitations of the attenuation element is a common mode ferrite component, **Parker** teaches an attenuation element is common mode ferrite for surface mounting on a circuit board, wherein the attenuation element has very high resistance range and a very wide frequency range for improving the EMC interference suppression.*

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the circuit module by providing the attenuation element of common mode ferrite that has very high resistance range and a very wide frequency range and suitable for surface mounting on a circuit board, as taught by **Parker**. Doing so would improve the EMC interference suppression for the motor power supply circuit.

*Regarding the limitations of the common housing that accommodate the PCB with attenuator component and the motor, **Haag** teaches a motor drive unit having PCB (84) with circuit configuration including ferrite component as an attenuation element (78, 80) for an EMC inference suppression being disposed thereon the PCB (figs 1-2, and 5-7), wherein the motor drive unit having a common housing (figs 1-2, 5-7) to accommodate the PCB with the attenuation element and the motor within said housing. Those skilled in the art would realize that such common housing for the motor and its control circuit module would require relatively short internal electrical connection between electric motor and electronic module within the common housing as an integrated unit resulting in enhancing electrical characteristics, high reliability and operating life while requiring a compact installation space.*

Thus, and it would have been obvious to one skilled in the art at the time the invention was made to modify the module of a drive unit to have a common housing that encloses the motor and the PCB with the attenuation element, as taught by **Haag**. Doing so would enable relatively short internal electrical connection between electric motor and electronic module

within the common housing as an integrated unit resulting in enhancing electrical characteristics, high reliability and operating life while requiring a compact installation space.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### ***Communication***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is 571-272-2030. The examiner can normally be reached on 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. (**Note: Use this Central Fax number 571-273-8300 for all official response.**)

Do **not** use the Examiner's RightFax number without informing the Examiner first because, according to the USPTO policy, any document being sent via RightFax is treated as unofficial response and will not be officially dated until it is routed to the Central Fax.

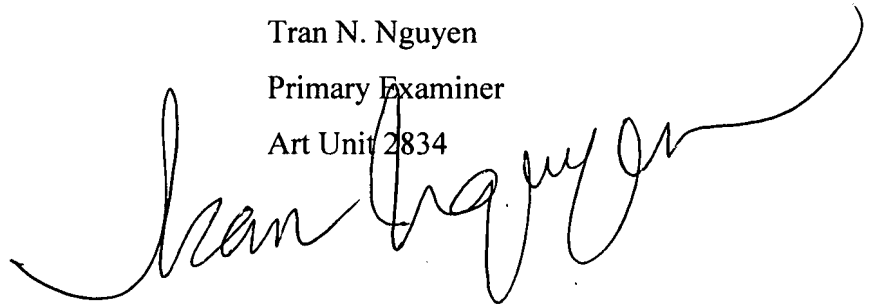
Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tran N. Nguyen

Primary Examiner

Art Unit 2834

A handwritten signature in black ink, appearing to read 'Tran N. Nguyen', is written over the typed name and title. The signature is fluid and cursive, with a long horizontal stroke extending to the right.